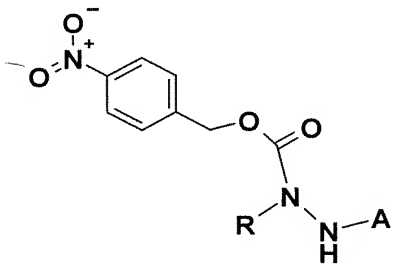
AMENDMENTS TO THE CLAIMS

1. – 12. (Canceled)

13. (Currently Amended) A process for the preparation of an aza-peptide comprising:

a. reacting at least one aza-amino ~~an aza-amino~~ acid building block of Formula (II) with an amino acid, an aza-amino acid, a peptide, an aza-peptide or an azatide to ~~form a~~ form an aza-peptoidic bond through aza-peptide coupling:



II

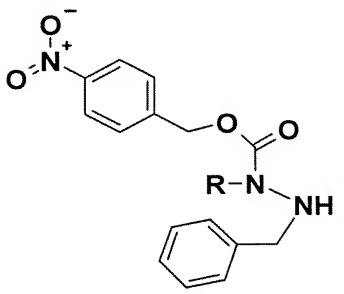
wherein R is selected from H and C_1-C_6 alkyl;

A is any functional group of an amino acid;

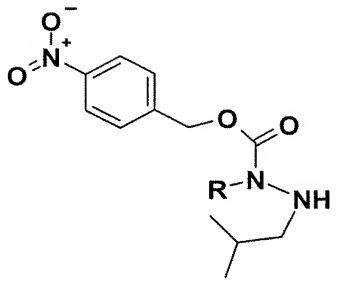
R and A can form a C_3-C_6 -heterocycloalkyl ring and

b. removing the para-nitro carbobenzyloxy group.

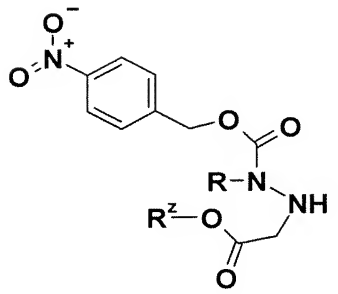
14. (Previously Presented) The process according to claim 13 wherein the at least one aza-amino acid building block in step a) is selected from Formulae III, IV, V and VI:



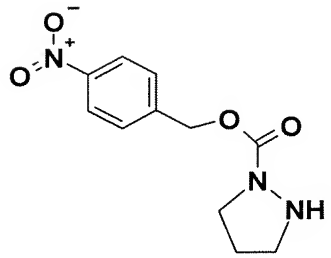
III



IV



V



VI

wherein R is selected from H and C_1-C_6 alkyl;

R^Z is selected from $-CH_2-CH=CH_2$ and –tert-butyl.

15. (Previously Presented) The process according to claim 14 wherein R is H.

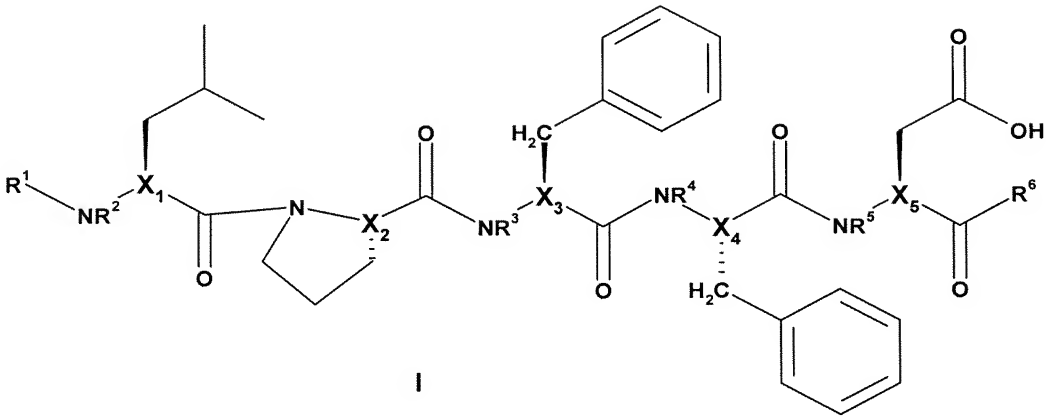
16. (Previously Presented) The process according to claim 13 for the preparation of an aza-peptide of a total sequence from 2 to 10 peptoid units in length.

17. (Previously Presented) The process according to claim 13 for the preparation of an aza-peptide of a total sequence from 2 to 5 units peptoid units in length.

18. (Previously Presented) The process according to claim 13 for the preparation of an aza-peptide having between 2 to 10 aza-amino acids.

19. (Previously Presented) The process according to claim 13 for the preparation of an aza-peptide having between 2 to 5 aza-amino acids.

20. (Previously Presented) The process according to claim 13 for the preparation of an aza-peptide of Formula I:



I

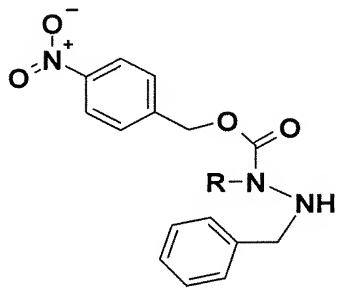
wherein R^1 is selected from H, C_2-C_6 acyl and C_1-C_6 alkyl;

R^2, R^3, R^4 and R^5 are independently selected from H and C_1-C_6 alkyl;

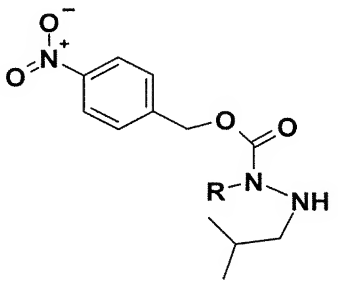
R^6 is selected from OH and NR^7R^8, wherein R^7 and R^8 are independently selected from H andC_1-C_6 alkyl;

X_1, X_2, X_3, X_4 and X_5 are independently selected from CR^9 or N wherein R^9 is selected from H and C_1-C_6 alkyl and with the condition that at least one among X_1, X_2, X_3, X_4 and X_5 is N; as well as any chiral derivative thereof.

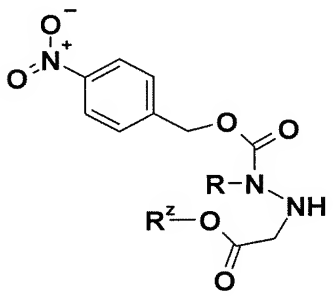
21. (Currently Amended) A synthetic aza-peptide building block having a Formula selected from Formulae III, IV, V and VI:



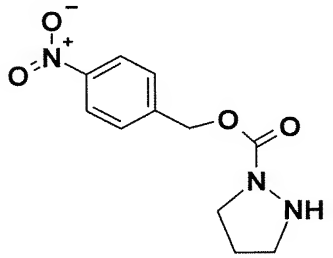
III



IV



V



VI

wherein R is selected from H and C_1-C_6 alkyl;

R^Z is selected from $-CH_2$-CH=CH_2 and –tert-butyl.

22. (Original) A synthetic aza-peptide building block of claim 21 wherein R is H.

23. – 27 (Canceled)